

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



544278

(43) International Publication Date
4 November 2004 (04.11.2004)

PCT

(10) International Publication Number
WO 2004/094487 A1

(51) International Patent Classification⁷: C08F 10/06, 2/00

(21) International Application Number:

PCT/US2004/005018

(22) International Filing Date: 20 February 2004 (20.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/456,373 21 March 2003 (21.03.2003) US

(71) Applicant (for all designated States except US): **DOW GLOBAL TECHNOLOGIES, INC.** [US/US]; Washington Street, 1790 Building, Midland, MI 48674 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **COALTER, Joseph, N., III** [US/US]; 44 Doral Street, Hurricane, WV 25526 (US). **VAN EGMOND, Jan, W.** [NL/US]; 1504 Virginia Street, Charleston, WV 25311 (US). **THERIAULT, Curt, N.** [US/US]; 4282 South Schreiber Road, Hemlock, MI 48626 (US). **PAINTER, Roger, B.** [US/US]; 121 Barrington Drive, Scott Depot, WV 25560 (US).

(74) Agent: **DELINE, Douglas, N.**; The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48674-1967 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MORPHOLOGY CONTROLLED OLEFIN POLYMERIZATION PROCESS

(57) Abstract: A catalyst composition, method of formation and process of use in the polymerization of olefin monomers, said composition comprising a catalyst compound, an activator capable of converting said catalyst compound into an active catalyst for addition polymerization, optionally a carrier, further optionally a liquid diluent, and a hydroxycarboxylate metal salt additive.



WO 2004/094487 A1